



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723,912	11/26/2003	Jerry Michael Evoy	PQH03-046 9798		
7590 01/19/2006			EXAMINER		
Phuong-Quan Hoang			CHU, GABRIEL L		
Unisys Corporation 25725 Jeronimo Road			ART UNIT	PAPER NUMBER	
MS 400			2114		
Mission Viejo, CA 92691			DATE MAILED: 01/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	No.	Applicant(s)				
		10/723,912		EVOY, JERRY MICHAEL				
Office Action Summary		Examiner		Art Unit				
		Gabriel L. Chu		2114				
Period f	The MAILING DATE of this communic or Reply	cation appears on the co	ver sheet with the co	orrespondence ad	idress			
WHIO - Exte afte - If NO - Fail Any	HORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MARIES FROM THE MARIE	AILING DATE OF THIS of 37 CFR 1.136(a). In no event, h unication. utory period will apply and will exp vill, by statute, cause the application	COMMUNICATION owever, may a reply be time bire SIX (6) MONTHS from the on to become ABANDONED	By filed the mailing date of this c (35 U.S.C. § 133).				
Status								
1)[🛛	Responsive to communication(s) filed	on 26 November 2003						
2a)□	•	b)⊠ This action is non-						
3)□								
,	closed in accordance with the practic	•	•					
Disposit	tion of Claims							
4)⊠	☑ Claim(s) <u>1-36</u> is/are pending in the application.							
,—	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1,3-10,13,15-22,25 and 27-34</u> is/are rejected.							
7)⊠	Claim(s) 2,11,12,14,23,24,26,35 and	36 is/are objected to.						
8)[Claim(s) are subject to restrict	ion and/or election requ	irement.					
Applicat	ion Papers							
9)[The specification is objected to by the	Examiner.						
10)🖾	The drawing(s) filed on 26 November	<u>2003</u> is/are: a)⊠ acce	pted or b)□ objecte	ed to by the Exam	niner.			
	Applicant may not request that any object	tion to the drawing(s) be h	eld in abeyance. See	37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t	the correction is required it	the drawing(s) is obje	ected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to	by the Examiner. Note t	the attached Office	Action or form P	TO-152.			
Priority	under 35 U.S.C. § 119							
-	Acknowledgment is made of a claim fo ☐ All b)☐ Some * c)☐ None of:	or foreign priority under	35 U.S.C. § 119(a)-	(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority d				_			
	3. Copies of the certified copies o			d in this National	Stage			
•	application from the Internation	•						
~ ;	See the attached detailed Office action	i for a list of the certified	copies not received	J.				
Attachmei			_					
1) 🔲 Noti 2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT	4)	Interview Summary (Paper No(s)/Mail Dat					
3) 🔲 Info	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date	PTO/SB/08) 5)	Notice of Informal Pa		O-152)			

Art Unit: 2114

DETAILED ACTION

Claim Objections

1. Claims 1, 5, 13, 17, 25, 29 objected to because of the following informalities: Referring to claims 1, 5, 13, 17, 25, 29, Applicant's use of "set of" language in these claims is inconsistent. Appropriate correction is required.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 13-24 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Referring to claim 13, and its dependent claims, Applicant has claimed "a machine-accessible medium including data..." which is viewed as non-statutory in view of the specification. Referring to Applicant's specification page 10, this machine-accessible medium has been disclosed to include "any medium that can store, transmit, or transfer information" including "fiber optic medium, a radio frequency (RF) link, etc." To overcome this rejection, Applicant must amend the claims to refer only to a machine-accessible storage medium.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/723,912

Art Unit: 2114

4. Claims 1, 3-8, 10, 13, 15-20, 22, 25, 27-32, 34 rejected under 35 U.S.C. 102(b) as being anticipated by US 5133075 to Risch. Referring to claim 1, 13, 25 Risch discloses (a) receiving at a snapshot module a request from a user to monitor a set of specified resources (From line 26 of column 5, "client requests to monitor".);

Page 3

- (b) requesting, via the snapshot module, a monitor request module to create at least one monitor; (c) creating at least one monitor using the monitor request module (From line 28 of column 7, "Preferably a monitor is defined for a given attribute in advance of any request to monitor that attribute.");
- (d) loading into the monitor parameters of the set of specified resources (From line 35 of column 7, "The Define Monitor procedure is begun (block 501) by a user who tells the system which attribute is to be monitored. As discussed above, every attribute is accessed by a function (either an extensional function or an intensional function), and the monitor procedure which is defined for a given attribute is defined in terms of the function which accesses that attribute (this function is hereafter referred to as "the monitored function").");
- (e) creating first objects corresponding to a snapshot of the specified resources based on the loaded parameters, the snapshot representing states of the specified resources at a point in time (From line 59 of column 7, "The Define Monitor procedure preferably includes creating means for keeping a record of the value of the attribute being monitored. More particularly, an Attribute Value table is created (block 503) for the monitored function. This table includes positions for recording the value of the attribute accessed by the function.");

and (f) monitoring the first objects using the monitor (From line 65 of column 7, "Later, when monitoring is begun, the then-current value of that attribute is calculated and entered in the table. Comparison of that value with the of the monitored attribute after an update tells the system whether the monitored value was in fact changed as a result of the update.").

Further referring to claim 25, Risch discloses a processor; and a memory coupled to the processor, the memory containing program code that, when executed by the processor, causes the processor to perform operations (Figure 7.).

- 5. Referring to claim 3, 15, 27, Risch discloses (g) providing to the user a link to the monitor (From the abstract, the client is notified. From line 44 of column 7, "The Define Monitor procedure preferably includes creating means for keeping the record of client requests. More particularly, a Client Address table is created (block 502) for the monitored function. This table includes positions for recording a client's identification, a client's address (for example, a workstation location) and a name of a procedure designated by the client.");
- 6. Referring to claim 4, 16, 28, Risch discloses (e) comprises creating an instatiation of the snapshot module (From line 35 of column 7, "The Define Monitor procedure is begun (block 501) by a user who tells the system which attribute is to be monitored. As discussed above, every attribute is accessed by a function (either an extensional function or an intensional function), and the monitor procedure which is defined for a given attribute is defined in terms of the function which accesses that attribute (this function is hereafter referred to as "the monitored function").").

Art Unit: 2114

7. Referring to claim 5, 17, 29, Risch discloses (g) updating the first objects upon receiving a notification of a change to at least one of the specified resources, using the monitor (); and (h) logging information related to the change (From line 58 of column 3, "A preferred embodiment of a method of monitoring an object according to the invention includes the following steps: keeping a record of any client requests to monitor an attribute of the object; keeping a record of any update transactions initiated by a client during an update session; and if that client requests that the transaction be committed, determining which monitored attributes may have been affected, determining whether the values of any of said attributes have changed, and, for each value which has changed, notifying any client which requested monitoring of that attribute.").

- 8. Referring to claim 6, 18, 30, Risch discloses (i) creating a new object representing a current state of the specified resource having the change; and (j) comparing the new object to the corresponding first object representing a previous state of the specified resource to determine the change (From line 65 of column 7, "Later, when monitoring is begun, the then-current value of that attribute is calculated and entered in the table. Comparison of that value with the of the monitored attribute after an update tells the system whether the monitored value was in fact changed as a result of the update.").
- 9. Referring to claim 7, 19, 31, Risch discloses the specified resources are of different types (From line 31 of column 11, "The monitoring can be localized as to object by monitoring only attributes of specified (focused) objects rather than monitoring all objects of a given type. Finally, as already discussed the monitoring is localized as to

Application/Control Number: 10/723,912

Art Unit: 2114

attribute by monitoring only desired attributes, not all attributes of a given object."),

Page 6

and wherein operation (c) comprises: creating different monitors to correspond to different types of specified resources (From line 35 of column 7, "The Define Monitor procedure is begun (block 501) by a user who tells the system which attribute is to be monitored. As discussed above, every attribute is accessed by a function (either an extensional function or an intensional function), and the monitor procedure which is defined for a given attribute is defined in terms of the function which accesses that attribute (this function is hereafter referred to as "the monitored function").");

and wherein operation (e) comprises: creating different sets of first objects corresponding to the different types of specified resources, each of the different sets of first objects representing states of specified resources of a corresponding type and being maintained by a corresponding monitor (From line 59 of column 7, "The Define Monitor procedure preferably includes creating means for keeping a record of the value of the attribute being monitored. More particularly, an Attribute Value table is created (block 503) for the monitored function. This table includes positions for recording the value of the attribute accessed by the function.").

10. Referring to claim 8, 20, 32, Risch discloses providing to the user all ink to each of the monitors (From the abstract, the client is notified. From line 44 of column 7, "The Define Monitor procedure preferably includes creating means for keeping the record of client requests. More particularly, a Client Address table is created (block 502) for the monitored function. This table includes positions for recording a client's identification, a

client's address (for example, a workstation location) and a name of a procedure designated by the client.").

11. Referring to claim 10, 22, 34, Risch discloses the monitor request module is initiated by a resource monitor service (From line 35 of column 7, "The Define Monitor procedure is begun (block 501) by a user who tells the system which attribute is to be monitored. As discussed above, every attribute is accessed by a function (either an extensional function or an intensional function), and the monitor procedure which is defined for a given attribute is defined in terms of the function which accesses that attribute (this function is hereafter referred to as "the monitored function").").

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claim 9, 21, 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 5133075 to Risch as applied to claim 1, 13, 25 above, and further in view of "COM" by Microsoft Computer Dictionary (MSCD). Referring to claim 9, 21, 33, Risch discloses the monitor is implemented as one of a thread, and a process (From line 35 of column 7, "The Define Monitor procedure is begun (block 501) by a user who tells the system which attribute is to be monitored. As discussed above, every attribute is accessed by a function (either an extensional function or an intensional function), and the monitor procedure which is defined for a given attribute is defined in terms of the

Art Unit: 2114

function which accesses that attribute (this function is hereafter referred to as "the monitored function").").

Although Risch does not specifically disclose the monitor may be implemented as a COM object, COM objects are well known in the art, an example of which is shown by MSCD, "A specification developed by Microsoft for building software components that can be assembled into programs or add functionality to existing programs running on Microsoft Windows platforms." A person of ordinary skill in the art at the time of the invention would have been motivated to use a COM object because it "can be assembled into programs or add functionality to existing programs" and further, because Risch is interested in adding functionality to a system, from line 7 of column 1, "The present invention relates generally to database systems, and more particularly to a method of monitoring changes in values of attributes of objects in object-oriented database systems."

Allowable Subject Matter

- 14. Claims 2, 11, 12, 14, 23, 24, 26, 35, 36 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 15. Referring to claim 2, 14, 26, the prior art does not teach or fairly suggest, in light of the parent claim(s), the specified resources include at least one of the following: a file object, a registry object, and a set of all processes that are active while the monitor is active, further noting claim 14's rejection under 112 above.

Art Unit: 2114

16. Referring to claim 11, 23, 35, the prior art does not teach or fairly suggest, in light of the parent claim(s), after being initiated, the monitor request module restarts all restartable monitors.

17. Referring to claim 12, 24, 36, the prior art does not teach or fairly suggest, in light of the parent claim(s), determining, using the monitor request module, whether the specified resources are already being monitored by an active monitor previously created; and if the specified resources are already being monitored by an active monitor previously created, setting the currently created monitor to error status using the monitor request module.

Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See notice of references cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriel L. Chu whose telephone number is (571) 272-3656. The examiner can normally be reached on weekdays between 8:30 AM and 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman can be reached on (571) 272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2114

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gabriel L. Chu

Examiner Art Unit 2114

gc